

REMARKS

Applicants respectfully request favorable reconsideration of this application, as amended.

The abstract has been revised to address the alleged informality.

Elected Claims 5-12 are pending for further consideration.

Without acceding to the outstanding rejection under 35 U.S.C. § 103(a), independent Claims 5 and 8 have been amended to clarify the invention intended to be claimed. Their respective dependent claims have also been revised for clarity. As will be apparent, each of independent Claims 5 and 8 distinguishes patentably from Makicini et al., which was cited as the basis for the outstanding rejection.

As presently amended, Claim 5 recites a data processor with an instruction set including an instruction for calculating an inner product of two vectors and to sum the inner product with scalar data, with a single execution of the instruction. In contrast to Applicants' invention, Makineni et al. teach a processor requiring four executions of a floating-point multiply and accumulate instruction to calculate an inner product of two vectors. There is no suggestion whatsoever of a processor which can calculate an inner product of two vectors and sum the inner product with

scalar data with a single execution of an instruction. Accordingly, Claim 5, and its dependents, distinguish patentably from the cited reference and should now be allowed.

Claim 8, as presently amended, recites a data processor with an instruction set including an instruction for calculating a product of matrix data and vector data with a single execution of the instruction. In contrast, it is apparent that the processor taught in Makineni et al. would require multiple executions of instructions to calculate the product of matrix data and vector data. Thus, Claim 8, and its dependents, also distinguish patentably from the cited reference and should be allowed as well.

For the reasons indicated in the foregoing remarks, this application is believed to be clearly in condition for allowance. An early Notice of Allowance is therefore respectfully solicited.

The Commissioner is hereby authorized to charge to Deposit Account No. 50-1165 any fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this paper and to credit any overpayment to that Account. If any extension of time is required in connection with the filing of this paper and has

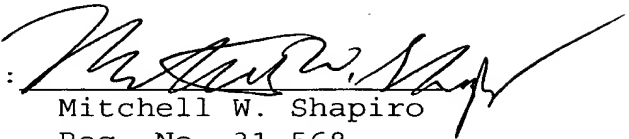
not been requested separately, such extension is hereby
requested.

Respectfully submitted,

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